to retrive index values


```
<h1> ngFor loop</h1> <br>
<div *ngFor="let item of names; index as i">
  <h1> {{i}} {{item}} </h1>
</div>
```

o/p:-

0 Virat
1 Chahal
2 Sinaj
3 ABD
4 Umesh

```
<div *ngFor="let item of names; even as i">
```

Output:-

true Virat
false Chahal
true Sinaj
false ABD
true Umesh

```
<div *ngFor="let item of names; odd as i">
```

Output:-

true Virat false Virat
false Cha true Chahal
false Sinaj
true ABD
false Umesh

```
<div *ngFor="let item of names; first as i">
```

Output:-

true Virat
false Chahal
false Sinaj
false ABD
false Umesh

```
<div *ngFor="let item of names; last as i">
```

false Virat
false Chahal
false Sinaj
false ABD
true Umesh

Routing

- Routing is a mechanism used by angular for navigating between page and displaying appropriate component / page on browser
- Angular framework mainly focused and good for the SPA
- It loads a single full HTML page and dynamically loads or updates the partial pages as per user request. And, that is achived with the help of routes.

Why routing?

- We can access our application through one URL such as https://localhost:4200
- And our application is not aware of any other URL's such as https://localhost:4200/login
- Most web applications need to support different URLs to navigate users to different pages in the application. That's where a router comes in.

Angular routing allows us to

* redirect a URL to another URL
* resolve data before a page is displayed
* run scripts when a page is activated or de-activated

How Angular Router Works

- When user navigates to a page, Angular Router performs the following steps
- Every time a link is clicked on the browser URL changes, Angular route makes sure your applicati reacts accordingly

- To accomplish that, Angular router performs the following 7 steps in order. (27)

How Angular works

Step1: Parse the URL.

Step2: Redirect.

Step3: Identify the router state.

Step4: Guard - run guard.

Step5: Resolve.

Step6: Activate.

Step7: Manage.

app-routing.module.ts

```
import {NgModule} from '@angular/core';
import {Routes,RouterModule} from '@angular/router';
import {studentComponent} from './student/student.component';
import { StudentDetailsComponent} from :/student-dutails/ student-
                                          details.components';

const routes:Routes=[
{
   path: 'student', component: StudentComponent
},
{
   path: 'student-details', component :StudentDetailsComponent
}
];
@NgModule({
   imports:[RouterModule.forRoot(routes)],
   exports:[RouterModule]
})
export class AppRoutingModule{}
```

student.component.html

```
<p> student works! </p>
```

studentdutails.component.html

```
<p> studentdutails works! </p>
```

app.component.html

```
<body>
 <div>
  <h1> routing </h1>
 </div>
  <div id="one">
  <a [routerLink]="['/student']">Student</a>
  <a [routerLink]="['/student-details']">
                    Student-Details </a>
 </div>
  <router-outlet> </router-outlet>
 </body>
```

app.component.css

```
a{ margin-right:50px; border:solid;
   background-color:aqua; padding:5px;}
#one{
      border:solid; padding:20px;}
```

Output 1:-

routing

student | studut-dutails

student works

Output-2:-

student | studentdutails

student-details works